



HDi *Mobi OS™* Multi-touch Screen Operation Manual (Android 5.0.1)



Remarks:

- Technical parameters and pictures in this manual are for reference only and subject to change without notice. The actual product may differ.
- Before using our product please read this manual carefully and keep for future reference if required.
- This manual should not be copied fully or partially in any kind or manner without written approval of HDi.

Introduction

Thank you for buying our new generation interactive multi-touch MTS product. This manual provides you with the necessary information to assist in the operations of this device. If you have further queries please do not hesitate to contact our support team.

HDi is dedicated to developing and improving the performance and reliability of our products. We have designed and manufactured this device with one objective in mind and that is to ensure that our customers' needs and user experience are fulfilled.

Thank you for your purchasing this product.

Safety considerations

WARNING

1. Do not place containers with liquid on or near this product.
2. Use only dry cloth to clean.
3. Do not block any ventilation holes.
4. Install this product according to manufacturer's specifications
5. A distance of at least 160mm must be kept from this product and other objects and/or walls.
6. Do not install this product near heat sources.
7. This product must be connected to a power point which is appropriately earthed.
8. Use the earthed power plug supplied by with this product.
9. Keep the power cord tangle free.
10. Use a properly functioning power point at all times.
11. Disconnect the power plug during storm or if you intend not to use for a long period of time.
12. The device is a heavy product and when moving use appropriate equipment to avoid injury.
13. Use qualified technicians to mount the device on the wall and/or mobile trolley. Abide by manufacturers' mounting instructions.
14. Use only qualified technicians for all repairs.
15. Antenna must be kept away from power cord.
16. The external antenna must be connected to earth to prevent potential damage caused by voltage surge or ESD (Electro Static Discharge).
17. Follow instructions when inserting batteries into the remote control unit. Discard all batteries appropriately.
18. Do not use mixed batteries (old and new, carbon-zinc and alkaline).

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The HDi multi-touch display is a combination of two advance technologies. The IR (Infrared) touch technology and high definition (HD) digital display technology (MTS) creating the HD Interactive Android Version Multi Touch Screen (MTS). This combination provides the user the ability to interact with an MTS screen using a finger or any solid object.

Main functions

Acute touch

The MTS is a high resolution touch displaying screen. Users interact with the MTS using finger, pen or other non-transparent object.

HD display

The MTS is a high resolution display terminal, as a HD monitor.

Technical Specification

Size	55''		65''		70''	
OSD language	English					
Panel	Resolution	Up to 3840 X 2160	Up to 3840 X 2160	Up to 3840 X 2160		
AV	Color System	PAL / NTSC / SECAM				
	Composite (in)	1.0 Vp-p±5%@75ohm				
	Audio (in)	500mV rms				
Analog RGB (PC)	Mode	Up to 3840X2160@30Hz				
YPbPr/HDMI	Component	Y: 1.0Vp-p@75 Ω, PbPr: 0.7Vp-p@75 Ω				
	Support format	Up to 2160P				
	HDMI Format	HDMI 2.0/1.4 /HDCP 1.2				
USB file system	FAT32, FAT16, NTFS (NTFS compressed file is not supported)					
Input terminals	CVBS/Audio Input	1xMINI (black)				
	YPbPr	1xMINI (black)				
	USB input	2 x USB3.0 USB-A (horizontal) ,1xUSB2.0 (front) , 1xPC (front) Connect back USB 2.0-A(Vertical)				
	PC-RGB Input	1 X D-SUB 15Pin (blue)				
	PC Audio Input	1X 3.5mm Stereo audio-in jack				
	HDMI input	3 X HDMI-A (one in front)				
	RS232	1XRS232				
Output terminals	AV OUT	1xMINI (black)				
	Earphone	Earphone jack×1				
	SPDIF output	1 x RCA-RCA				
Mobi OS™ specification	Processor	Mobi OS™ (Built on Android 5.0.1)				
	CPU	ARM A53×4 1.4GHz				
	GPU	ARM Mali450 MP4(4+2) 450MHz				
	RAM	2GB(4Gbit×4); DDR3; 1866MHz				
	ROM	16GB Build in EMMC				
	Wifi	IEEE802.11 a/b/g/n Dual Band 5 GHz				
	Bluetooth	Bluetooth 4.0				
	SD CARD	Support MAX 32GB SD Card				
RJ 45 port	1					
Voltage range	AC(90~240)V-50/60HZ					
Power consumption	Standby: <1W					
	Rated Consumption:	<150W	<230W	<250W		

Technical Specification (continued)

size		75''	86''
OSD language	English		
Panel	Resolution	Up to 3840 X 2160 (4K/2K)	Up to 3840 X 2160 (4K/2K)
AV	Color System	PAL / NTSC / SECAM	
	Composite (in)	1.0 Vp-p±5%@75ohm	
	Audio (in)	500mV rms	
Analog RGB (PC)	Mode	Up to 3840X2160@30Hz	
YPbPr/HDMI	Component	Y: 1.0Vp-p@75 Ω, PbPr: 0.7Vp-p@75 Ω	
	Support format	Up to 2160P	
	HDMI Format	HDMI2.0/ 1.4 /HDCP 1.2	
USB file System	FAT32, FAT16, NTFS (NTFS compressed file is not supported)		
Input terminals	CVBS/Audio Input	1xMINI (black)	
	YPbPr	1xMINI (black)	
	USB input	2 x USB3.0 USB-A (horizontal) , 1xUSB2.0 (front) , 1xPC (front) Connect back USB 2.0-A(Vertical)	
	PC-RGB Input	1 X D-SUB 15Pin (blue)	
	PC Audio Input	1X 3.5mm Stereo audio-in jack	
	HDMI input	3 X HDMI-A (one in front)	
	RS232	1XRS232	
Output terminals	AV OUT	1xMINI (black)	
	Earphone	Earphone jack×1	
Mobi OS™ specification	Processor	Mobi OS™ (Built on Android 5.0.1)	
	CPU	ARM A53×4 1.4GHz	
	GPU	ARM Mali450 MP4(4+2) 450MHz	
	RAM	2GB(4Gbit×4); DDR3; 1866MHz	
	ROM	16GB Build in EMMC	
	wifi	IEEE802.11 a/b/g/n Dual Band 5 GHz	
	Bluetooth	Bluetooth 4.0	
	SD CARD	Support MAX 32GB SD Card	
	RJ 45 port	1	
Voltage range	AC(90~240)V-50/60HZ		
Power consumption	Standby: <1W		
	Rated Consumption:	<350W	<400W

Technical Specification (touch parameters)

Working temperature	0°C~40°C
Set up	As per this Operations Manual
Touch points	20 points
Writing mode	Finger, writing pen or any non-transparent object
Positioning technology	IR technology
Positioning accuracy	<2mm
Positioning resolution	4096*4096/16384*16384/32768*32768
Writing response time	<8ms
Cursor speed	>120 dot/sec
Communication port	USB
Operating system	WINDOWS/LINUX/MAC /Android
PC response	System auto response

Remark:

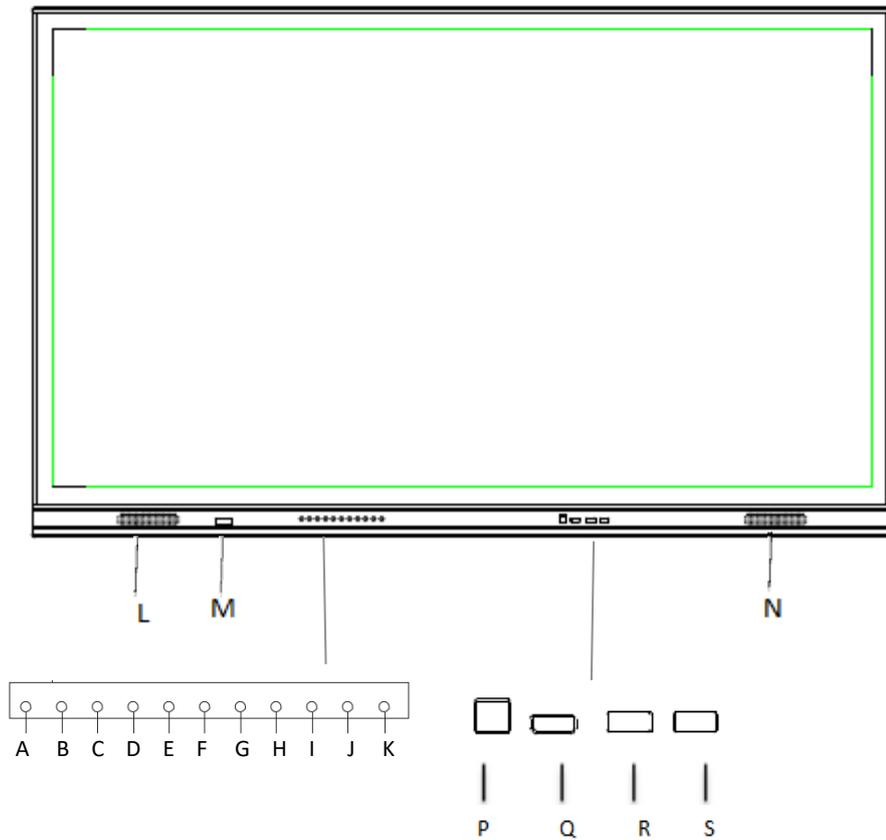
Above mentioned parameters are for standard models and are subject to change without notice.

Dimensions and Weights

size	N.W. (KGS)	G.W(KGS)	Display size	Dimension (outline)	Dimension (package)
55''	41.5±2KGS	50±2KGS	1209.5x680mm	1279*804*82mm	1410*935*210mm(carton)
65''	61.1±2KGS	72±2KGS	1428.5*803.5 mm	1500*931*82mm	1630*1060*210mm(carton)
70''	52.6±2KGS	68±2KGS	1538.9*865.6mm	1628*994*91mm	1760*1125*210mm(carton)
75''	79±2KGS	100±2KGS	1650*928mm	1728*1051*90mm	1895*1142*215mm(carton)
86''	92.5±2KGS	114.3±2KGS	1895.04*1065.96mm	1969*1188*90mm	2100*1320*220mm(carton)

Note: Reference only

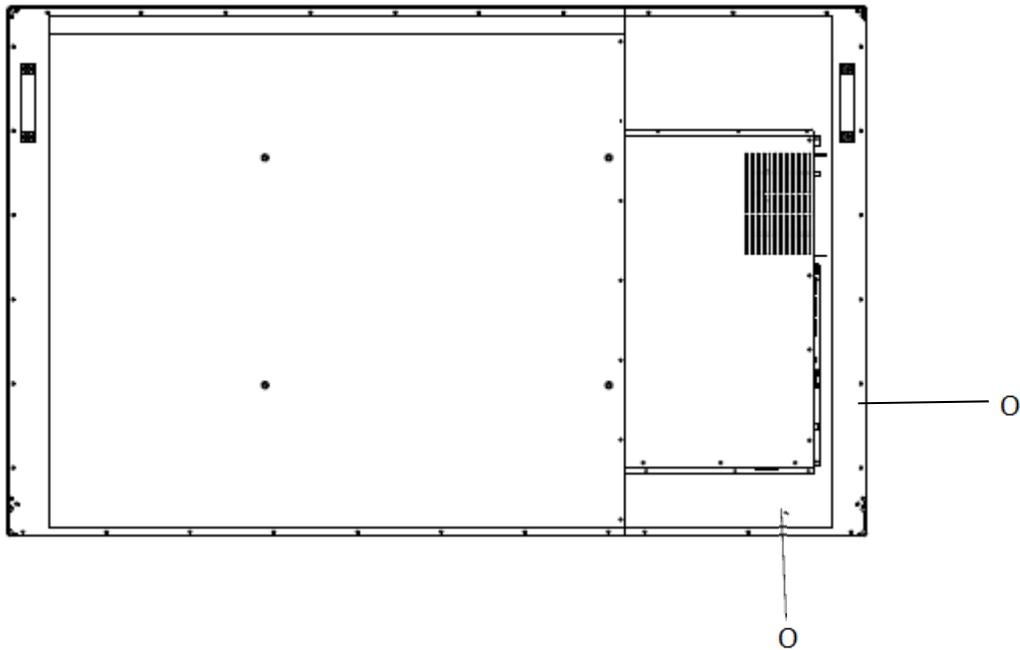
Front panel of interactive display



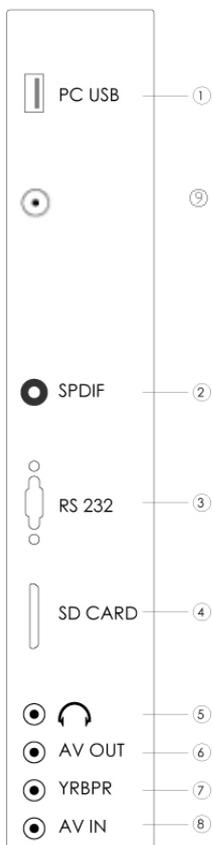
- A- POWER (Turn On/Off)
- B- Source (Source input)
- C- Menu
- D- Volume+
- E- Volume-
- F- Channel+
- G- Channel-(Menu item+/-)
- H- PC (Built-in OPS power on/off key (If no OPS, no functions)
- I- ES Turn (ON/off Energy-saving)
- J- Enter (enter above choice)
- K- Home (back to Android home screen)
- L & N- Speakers
- M- RCU receiver and button lamp
- P - TOUCH USB
- Q- HDMI 3
- R- PC USB (transfer to back USB-A)
- S- Android USB

Note: Front panel picture for reference only may differ from actual product, 70" maybe different.

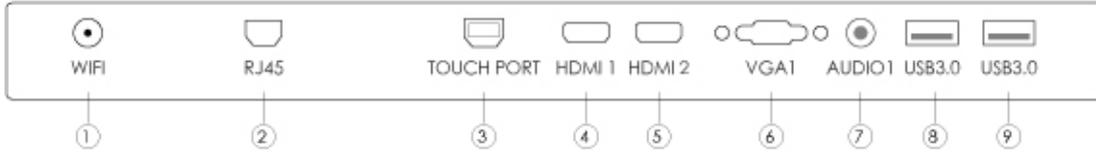
Rear view of interactive display



O – Back I/O Ports



Number	NAME	FUNCTION
1	PC USB	For external PC USB port transfer to front PC USB port
2	SPDIF	Coaxial output
3	RS232	serial communication transmission of data control
4	SD CARD	SD card slot, support max 32GB SD CARD
5		Headphone output
6	AV OUT	AV OUT
7	YPbPR	Coaxial output
8	AV IN	AV IN
9	Bluetooth	Bluetooth antenna (different size position may different)



Number	NAME	FUNCTION
1	WIFI	WIFI antenna
2	RJ45	Wired network port
3	TOUCH USB	Touch port
4	HDMI 1	HD multimedia signal input 1
5	HDMI 2	HD multimedia signal input 2
6	VGA1	External computer video input
7	AUDIO1	External computer audio input 1
8	USB3.0	Up port playing documents, pictures, audios, and videos directly under android
9		

Note: Reference only may differ from actual product

Side/rear port description

Side View



Video Input: Connect VGA cable with interactive touch MTS and source.

Audio Input: When using VGA input, an audio cable is needed to connect PC and MTS.

Touch Input: Using a USB cable to connect PC and interactive touch MTS

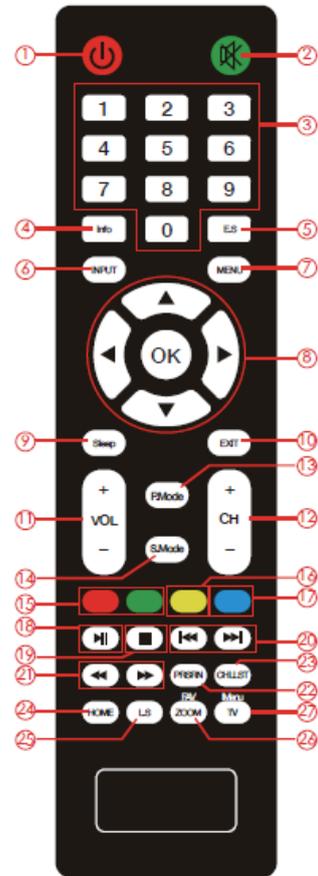
Remark: For reference only.

Packing List

No.	Part name	Quantity
1	RCU (Remote Control Unit)	1
2	Warranty Card	1
3	USB cable (1.5 Meter, B-type)	1
4	USB cable (1.5 Meter, A-type)	1
5	Stylus	3
6	Telescopic	1
7	Pen holder	1
8	Mounting screws	4
9	Power cable (1.8 meter, Australia specification)	1
10	VGA cable (1.8 meter, black)	1
11	HDMI cable (2 meter, black)	1
12	Audio cable (1.5 meter, black)	1
13	AA batteries	2

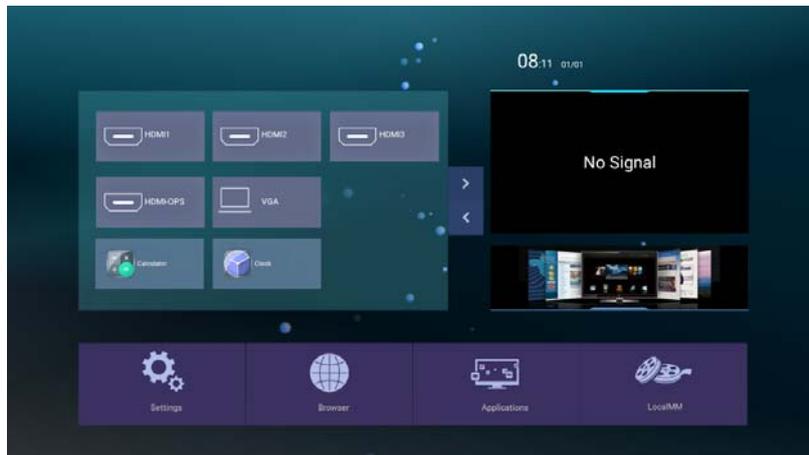
RCU (Remote Control Unit)

- 1) Standby: turn on or turn off the machine
- 2) Mute: mute or restore the sound
- 3) 0-9 numeric key: selection or input number
- 4) Info: display the screen information
- 5) E.S: energy-saving. On E.S mode, display will be turned off, audio keep working.
- 6) INPUT: enter or select source channel
- 7) MENU: enter or exit from the menu
- 8) up/down/left/right and OK: select up/down/left/right and the selection
- 9) Sleep: Sets a timer to turn off the interactive flat pane
- 10) Exit: Returns to previous menu
- 11) VOL+/-: VOL+ / VOL- to
- 12) CH+/-: menu up and down select
- 13) P. Mode: adjust picture mode
- 14) S. Mode: adjust sound mode
- 15) N/A
- 16) Display: Turns on/off the screen display
- 17) Touch button: Turn on/off touch
- 18) Play/.Pause : play audio/video or pause audio/video
- 19) Freeze: Freeze/unfreeze the display and sound
- 20) Previous/Next: select previous or next file
- 21) Forward/Rewind: Forward or Rewind the audio/video
- 22) PRSRN: screen shot button, save the picture in SCREENSHOOT file.
- 23) CHLLS: N/A
- 24) Home: back to Android Home page
- 25) L.S: N/A
- 26) Zoom: display ratio selection, support 16:9, 4:3, auto, full screen, just scan, 14:9, dot to dot, default.
- 27) TV: N/A



Introduction of OSD

Operation of OSD — How to choose source channel



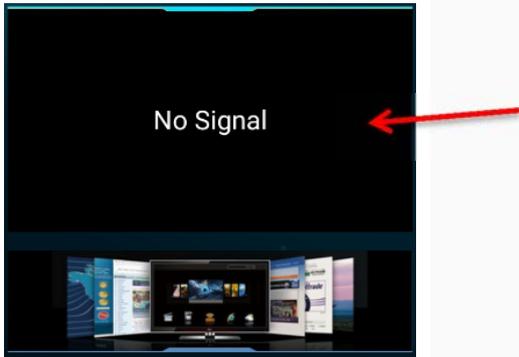
Three ways as follows to choose the source channel:

1.1 Touch the source you want and already connect on the screen

Step 1, touch the source you want, such as HDMI1

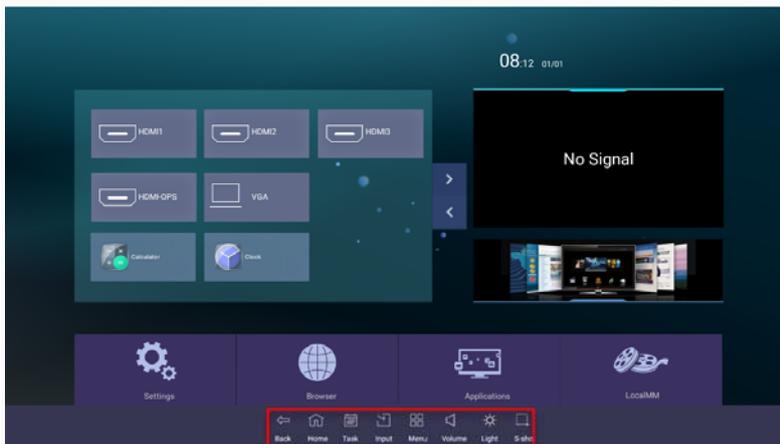


Step 2, touch the source screen

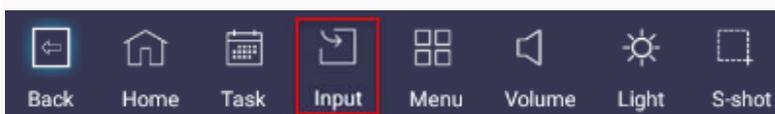


1.2 Press slip menu to select

Step 1, touch screen bottom and slip up some distance, there will be menu show as below



Step 2, touch "input"



Step 3, touch the source you want



1.3 use remote controller or press front source button, and press "◀/▶" and "OK" for confirmation



Introduction of “Menu”

Under the Non Android system, press “MENU” key on the remote controller or the touch screen to show the menu, then press  to choose sub menu, press  to enter the sub menu (picture menu→ voice menu →channel menu→ setting menu→ time menu)

Source Menu

For signal input, including VGA, HDMI1, HDMI2, HDMI3, HDMI-OPS (for built-in PC), AV, YPBPR, Media browser.

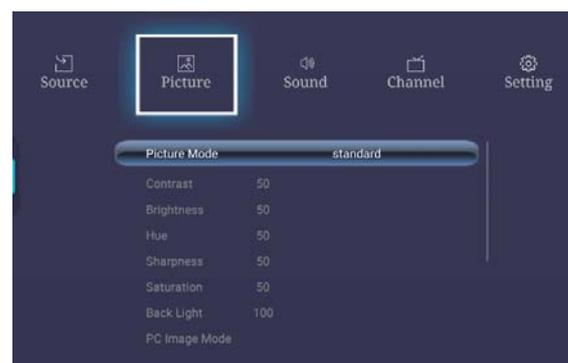
1. Entering submenu by pressing .
2. Entering into option by pressing “OK”.
3. Adjusting by pressing .
4. After finishing adjust and setting, save by pressing “OK” or “EXIT” and return the previous menu.



Picture menu

Includes Picture mode, Contrast, Brightness, Hue, Sharpness, Saturation, Back Light, PC image Mode, Color temperature, Color Temperature, Zoom mode.

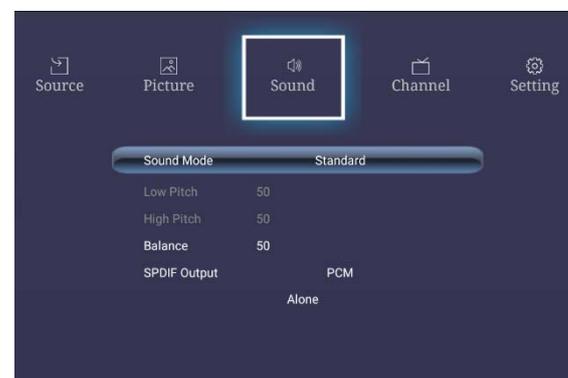
1. Press  to choose sub-menu.
 2. Press “ok” to enter the channel.
 3. Press  to adjust.
 4. Press “OK” or “EXIT” to save or back to the previous menu.
- Picture Mode includes standard, soft, user, game, auto, PC, vivid, nature, sport, bright. When in the PC channel, please choose PC Mode.
 - PC image Mode includes Clock, phase position, horizontal position, vertical position, auto adjustment.
 - Color Temperature includes Standard, warm, user, cold.
 - Zoom mode includes 16:9, 4:3, auto, full screen, JUST SCAN, 14:9, DOT TO DOT, DEFAULT.



Sound Menu

Including options of sound mode, low pitch, high pitch, equalizer, balanced sound, AVC, AD, AUTO HOH, surround sound, SRS, SPDIF output and single sound;

1. Choosing submenu by pressing .
 2. Entering into option by pressing “OK”.
 3. Adjusting by pressing .
 4. After finishing adjust and setting, save by pressing “OK” or “EXIT” and return previous menu.
- Sound mode includes standard, music, cinema, sports, user.
 - SPDIF includes PCM, turn off and RAW.



Channel Menu

Not available, when chose this Menu, will show previous menu content.

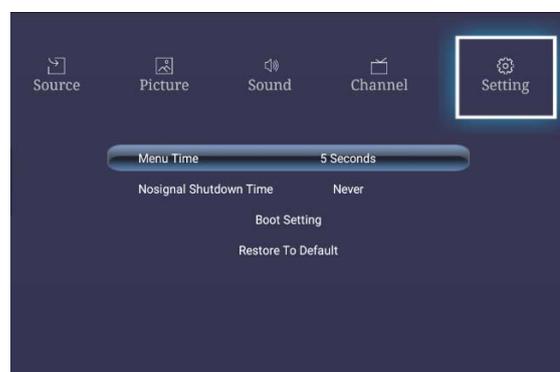


Set Menu

Including Menu Time, No signal shutdown time, Boot setting, Restore to Default.

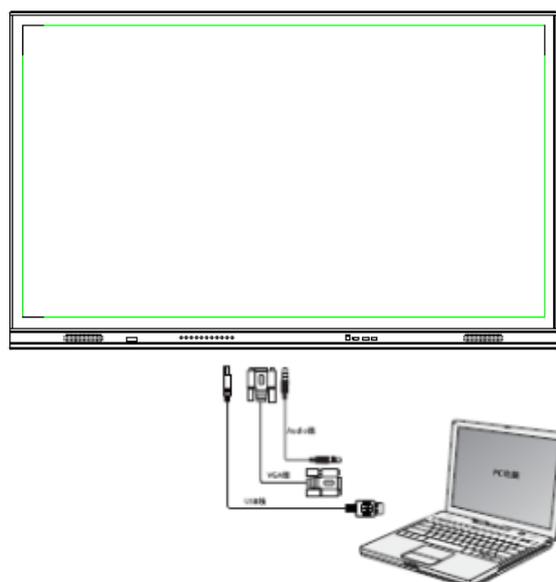
1. Entering sub menu by pressing ▲/▼.
2. Entering into option by pressing "OK".
3. Adjusting by pressing ◀/▶.
4. After finishing adjust and setting, save by pressing "OK" or "EXIT" and return the previous menu.

- Menu time include 5S, 10S, 15S, 20S, 30S and ALWAYS.
- Boot setting includes boot music, boot logo, boot volume.



Connecting PC

- Leave the MTS unit powered off
- Using the VGA or HDMI cable connect the MTS unit VGA or HDMI port with that of the PC



- Connect USB cable to the PC and to the touch port of the MTS unit.
- Power up the MTS unit and use the remote control unit (RCU) to select input source (HDMI Source)
- Use cables supplied together with this MTS unit.



The MTS unit has a driver-less touch frame.
 Once the USB cable is connected, the touch function means to be ready.
 Allow a few seconds for the MTS to register the connected PC.

Maintenance of touch frame

- The IR technology is sensitive to excessive dust
- Keep the screen surface free from dust
- Clean with a soft dry cloth
-

Trouble shooting

No Signal

Possible Causes: Connecting ports damage, VGA or HDMI line failure, Source input selection error, VGA or HDMI line not fixed connected

Corrective actions: Re-connect VGA or HDMI line and check if it is fixed firmly
 Select the right input source

No Audio

Possible causes: audio line not connected, check audio output from PC (e.g. volume, mute, etc.)

Corrective actions: Ensure audio cable is connected if using VGA, check volume and mute output in PC

Touch frame issues

Off calibration

Corrective action: Re-do the calibration, using Windows or IR frame calibration software included with the MTS unit, Check display resolution of your PC

Touch point drift.

When the cursor drifts away from the touch point,

Corrective action: Ensure there are no 'other' accidental touches from sleeves, elbows, etc.

Only single touch

Check if your PC has installed WIN7 or higher version OS

Check that the software you are using is multi touch capable

Corrective action: Install and use multi touch capable OS and application software.

Trouble shooting for MTS problems

No audio and picture

- Check if the power is on and power cord connected firmly with power supply
- Check if you have turned the power button on – rendering the unit on standby
- Check brightness and contrast setting
- Check volume
- Check the Source selection is appropriate

Picture but no audio

- Check volume
- Check if the mute button is activated in the RCU

No picture or only black and white picture

- Adjust color setting
- Check if the color format is right

Disturbance in audio and picture

- Relocated MTS unit

- Plug the power line to another power socket
- Re adjust antenna

Picture is not clear or distorted

- Check antenna orientation, position and connection.

Not full screen display

- Go to picture menu set the zoom mode to 16:9 or full screen or dot to dot
- Change the PC resolution to 1920*1080p or default
- Set the PC project to “second screen only”

Non responsive RCU

- Change batteries
- Clean RCU emitting window
- Unblock the receiving window at the MTS unit
- Check batteries’ contact points.

RoHS Standards

Marking for toxic and hazardous substances and elements

Part name	Toxic and Hazardous Substances or Elements					
	Lead (Pb)	Mercury (Hg)	Cadmium (Cd)	Hexavalent Chromium Cr(VI)	Polybrominated Biphenyl (PBB)	Polybrominated Diphenyl Ether (PBDE)
Housing	○	○	○	○	○	○
LED screen	ⓧ	○	○	○	○	○
PCB parts	ⓧ	○	○	○	○	○
Power line/Connection line	ⓧ	○	○	○	○	○
RCU	○	○	○	○	○	○
Accessories	ⓧ	○	○	○	○	○

* : PCB parts includes PCB board and its components, such as resistor, capacitor, IC, connector etc.
○: Represents toxic and hazardous substance content contained in all homogeneous materials of designated part below National Standards of SJ/T 1364-2006.
X: Represents toxic and hazardous substance content contained in one of homogeneous materials of designated part all meet EU ROHS standard and PCB parts related Lead is exempted from EU RoHS, and the maximum content is **946166.7 ppm**.

Remark: Environmental protection life time 10 years. Use under temperature of 5℃~35℃, all toxic and hazardous substances will not leak.

Environmental protection life time of this product does not include batteries.